

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/626,350	07/24/2003	Dennis Lewis	BAI525/03273	9118	
24118	7590 03/07/2006		EXAMINER		
HEAD, JOHNSON & KACHIGIAN			BASICHAS	BASICHAS, ALFRED	
228 W 17TH TULSA, OK	· - ·		ART UNIT	PAPER NUMBER	
102511, 01	. , , , , ,		3749	3749	

DATE MAILED: 03/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		E			
	Application No.	Applicant(s)			
	10/626,350	LEWIS, DENNIS			
Office Action Summary	Examiner	Art Unit			
	Alfred Basichas	3749			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be to within the statutory minimum of thirty (30) dayill apply and will expire SIX (6) MONTHS from cause the application to become ABANDON	mely filed ys will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).			
Status	•				
 Responsive to communication(s) filed on <u>17 Ja</u> This action is FINAL. 2b) ☐ This Since this application is in condition for allowar closed in accordance with the practice under E 	action is non-final. nce except for formal matters, pr				
Disposition of Claims					
4) Claim(s) 3,5-16,18-24 and 27 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 3,5-16,18-24 and 27 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the confidence of Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examine 11.	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ol	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
		6			
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summar Paper No(s)/Mail D	ate			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 1/17/06.	5) Notice of Informal 6) Other:	Patent Application (PTO-152)			

Art Unit: 3749

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Application/Control Number: 10/626,350 Page 3

Art Unit: 3749

2. Claims 3, 5-8, 12-14, 22-24, and 27 are rejected under 35 U.S.C. 102(a) or (e) as being anticipated by Specht (6,889,686), which shows all of the claimed limitations. Specht shows a burner assembly including, among other things, a housing 22 with combustion chamber having a series of spaced heat exchanger tubes 42, a body 44 having a single gas supply 50 leading into a mixing chamber 44e, a plate 46 having a plurality of ports 68,70,72 spaced and aligned with the inlets of the heat exchanger tubes (see at least fig. 3).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 5. Claims 15 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Specht (6,889,686), which discloses substantially all of the claimed limitations.

 Specht does not specifically recite a perforated diffuser in the mixing chamber. Official

Application/Control Number: 10/626,350 Page 4

Art Unit: 3749

Notice is given that the use of a perforated diffuser in a mixing chamber is old and well known in the art. Such an arrangement has the clear and obvious benefit of providing for enhanced mixing of the fuel and air. Accordingly, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate a perforated diffuser into the invention disclosed by Specht, so as to provide for enhanced mixing of the fuel and air.

6. Claims 9-11 and 18-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Specht (6,889,686), which discloses substantially all of the claimed limitations. Specht does not specifically recite the various embodiments recited in the claims, such as the number of burner ports differing from the number of inlets, greater or less than, various shapes of the ports, and fully or partially premixing. These various embodiments are clearly a matter of design choice, as all are old and well known in the art. Applicant has further indicated by omitting any detail to these embodiments that there is a lack of criticality thereto. In view of the absence of criticality or detail for these particular embodiments, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate it into the invention disclosed by Specht, so as to provide for desired known effects.

Response to Arguments

7. Applicant's arguments with respect to the claims, filed January 17, 2006, have been considered but are not deemed to be persuasive.

Application/Control Number: 10/626,350

Art Unit: 3749

a. Applicant argues the Specht fails to anticipate or make obvious the claimed invention because the claims have been amended to recite "a single burner plate." Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). As the claims are given the broadest reasonable interpretation, it should be evident that the plate of Specht satisfies the claimed limitation. The fact that the plate comprises a plurality of folds is irrelevant to the issues at hand. The structure of the plate has not been claimed. Further, applicant is advised that such plates as disclosed in the application are also old and well known in the art. The fact that these references have not been applied is simply a factor of what is necessary to read on the claimed limitations. At this time, in light of the breadth of the scope of the claims recited, there is simply no need.

Page 5

b. The examiner's assertion of Official Notice and design choice is taken to be admitted prior art in view of applicants' non-traversal of the assertion. MPEP 2144.03. The examiner appreciates applicants' waiver and efforts to expedite prosecution of the instant invention by avoiding unnecessary deliberations of well known aspects of the art.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alfred Basichas whose telephone number is 571 272 4871. The examiner can normally be reached on Monday through Friday during regular business hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ehud Gartenberg can be reached on 571 272 4828. The fax phone numbers for the organization where this application or proceeding is assigned are 703 872 9306.

Art Unit: 3749

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Tech Center telephone number is 571 272 3700.

March 2, 2006

Alfred Basichas
Primary Examiner